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JAPANESE PATENT OFFICE

## PATENT ABSTRACTS OF JAPAN

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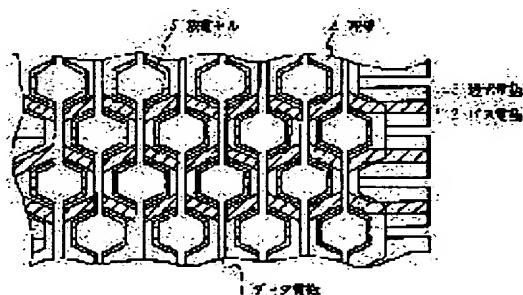
OKAJIMA TETSUJI

## (54) PLASMA DISPLAY PANEL

(57)Abstract:

PURPOSE: To reduce a voltage for writing data and increase speed and reliability in writing by expanding the area of a data electrode up to the size of a discharge cell in the part of the discharge cell and making the area of the data electrode narrower than the width of a barrier plate in the part of the data electrode, which is under the barrier plate.

CONSTITUTION: The area of a data electrode 1 is expanded up to the size of a discharge cell 5 in the part thereof which is in opposite to a scanning electrode within the discharge cell 5 to maximize the effective electrode area thereof. However, the width of the electrode 1 is made narrower than that of a barrier plate 4 in the part thereof, which is under the barrier plate 4. Thus, a voltage required for the discharge of data writing is reduced by increasing the effective electrode area of the electrode 1. The easiness of the discharge of data writing is proportional to a difference between a voltage applied to the electrode 1 and the minimum value of a voltage required for



the discharge of data writing, and therefore, the lower the minimum value of the voltage required for the discharge of data writing made, the surer the data wiring is made. Thus, the speed and the reliability of data writing are increased by reducing a voltage for data writing.

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